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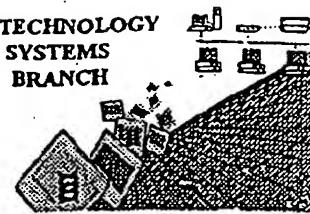
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BIOTECHNOLOGY  
SYSTEMS  
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## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/750,939A  
Source: 1Fwo  
Date Processed by STIC: 4/1/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.  
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:  
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE  
APPLICANT, WITH A NOTICE TO COMPLY or,  
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A  
NOTICE TO COMPLY  
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT  
MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221  
Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.  
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.  
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/750,939A

DATE: 04/01/2004  
TIME: 14:05:27

Input Set : A:\niles non-provisional-US.txt  
Output Set: N:\CRF4\04012004\J750939A.raw

pp 2-4

*Does Not Comply  
Corrected Diskette Needed*

3 <110> APPLICANT: Niles, Edward  
5 <120> TITLE OF INVENTION: Novel Inhibitors of Poxvirus Replication  
7 <130> FILE REFERENCE: 11520.0333  
9 <140> CURRENT APPLICATION NUMBER: US 10/750,939A  
10 <141> CURRENT FILING DATE: 2004-01-02  
12 <150> PRIOR APPLICATION NUMBER: US/60/437,945  
13 <151> PRIOR FILING DATE: 2003-01-02  
15 <160> NUMBER OF SEQ ID NOS: 20  
17 <210> SEQ ID NO: 1  
18 <211> LENGTH: 7  
19 <212> TYPE: RNA  
20 <213> ORGANISM: Artificial Sequence  
22 <220> FEATURE:  
23 <221> NAME/KEY: unsure  
24 <222> LOCATION: 6  
25 <223> OTHER INFORMATION: pox virus; n is g,a,u or c  
27 <400> SEQUENCE: 1  
W--> 28 uuuuuuu 7  
30 <210> SEQ ID NO: 2  
31 <211> LENGTH: 7  
32 <212> TYPE: DNA  
33 <213> ORGANISM: artificial sequence  
35 <220> FEATURE:  
36 <223> OTHER INFORMATION: nascent pox virus termination signal  
38 <400> SEQUENCE: 2  
39 ttttttt 7  
42 <210> SEQ ID NO: 3  
43 <211> LENGTH: 22  
44 <212> TYPE: RNA  
45 <213> ORGANISM: artificial sequence  
47 <220> FEATURE:  
48 <221> NAME/KEY: unsure  
49 <222> LOCATION: 14  
50 <223> OTHER INFORMATION: U5NU-22-mer oligo; n is g,a,u or c  
52 <400> SEQUENCE: 3  
W--> 53 gggccggcuu uuunuuugcg uu 22  
56 <210> SEQ ID NO: 4  
57 <211> LENGTH: 22  
58 <212> TYPE: RNA  
59 <213> ORGANISM: artificial sequence  
61 <220> FEATURE:  
62 <223> OTHER INFORMATION: mutant- 22-mer oligo  
64 <400> SEQUENCE: 4

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/750,939A

DATE: 04/01/2004  
TIME: 14:05:27

Input Set : A:\niles non-provisional-US.txt  
Output Set: N:\CRF4\04012004\J750939A.raw

65 gggccggcaa uuauuaugcg uu 22  
68 <210> SEQ ID NO: 5  
69 <211> LENGTH: 36  
70 <212> TYPE: RNA  
71 <213> ORGANISM: artificial sequence  
73 <220> FEATURE:  
74 <221> NAME/KEY: unsure  
75 <222> LOCATION: 23  
76 <223> OTHER INFORMATION: pGEM-U5NU-36-mer oligo n is g,a,u or c  
78 <400> SEQUENCE: 5

W--> 79 gggcgaaauug ggcggcuuuu uuuuuugcgu ugaaauu 36

82 <210> SEQ ID NO: 6  
83 <211> LENGTH: 36  
84 <212> TYPE: RNA  
85 <213> ORGANISM: artificial sequence  
87 <220> FEATURE:

W--> 88 <221> NAME/KEY:

89 <222> LOCATION:  
90 <223> OTHER INFORMATION: pGEM-Br-U5NU-36-mer; uracils at 8,9,18-26, 30, 31, 35 and  
91 36 are brominated  
93 <400> SEQUENCE: 6

94 gggcgaaauug ggcggcuuuu uuuuuugcgu ugaaauu 36

96 <210> SEQ ID NO: 7

97 <211> LENGTH: 27

98 <212> TYPE: DNA

99 <213> ORGANISM: artificial sequence

101 <220> FEATURE:

102 <223> OTHER INFORMATION: transcription template plasmid oligo

104 <400> SEQUENCE: 7

105 aattggcccg gctttttttt tgcgttg 27

108 <210> SEQ ID NO: 8

109 <211> LENGTH: 22

110 <212> TYPE: DNA

111 <213> ORGANISM: artificial sequence

113 <220> FEATURE:

W--> 114 <221> NAME/KEY:

115 <222> LOCATION:  
116 <223> OTHER INFORMATION: dU5NdU oligo; 9-17 is deoxyuracil

118 <400> SEQUENCE: 8

119 gggccggcuu uuuuuuuugcg uu 22

122 <210> SEQ ID NO: 9

123 <211> LENGTH: 22

124 <212> TYPE: RNA

125 <213> ORGANISM: artificial sequence

127 <220> FEATURE:

W--> 128 <221> NAME/KEY:

129 <222> LOCATION:  
130 <223> OTHER INFORMATION: BrdU5NdU oligo; 19-17 is brominated deoxyuracil

132 <400> SEQUENCE: 9

9-17 (see p. 3)

Input Set : A:\niles non-provisional-US.txt  
Output Set: N:\CRF4\04012004\J750939A.raw

133 gggccggauu uuuuuuuugcg uu 22  
135 <210> SEQ ID NO: 10  
136 <211> LENGTH: 22  
137 <212> TYPE: DNA  
138 <213> ORGANISM: artificial sequence  
140 <220> FEATURE:  
W--> 141 <221> NAME/KEY:  
142 <222> LOCATION:  
143 <223> OTHER INFORMATION: T5NT  
145 <400> SEQUENCE: 10  
146 gggccggctt tttttttgcg uu 22  
149 <210> SEQ ID NO: 11  
150 <211> LENGTH: 22  
151 <212> TYPE: DNA  
152 <213> ORGANISM: artificial sequence  
154 <220> FEATURE:

W--> 155 <221> NAME/KEY:  
156 <222> LOCATION:  
157 <223> OTHER INFORMATION: mutant T5NT  
159 <400> SEQUENCE: 11  
160 gggccggcaa ttattatgcg tt 22  
162 <210> SEQ ID NO: 12  
163 <211> LENGTH: 17  
164 <212> TYPE: RNA  
165 <213> ORGANISM: artificial sequence  
167 <220> FEATURE:  
168 <221> NAME/KEY: unsure  
169 <222> LOCATION: 10  
170 <223> OTHER INFORMATION: U5NU 17-mer oligo; n is a,g,u or c  
172 <400> SEQUENCE: 12

W--> 173 cggcuuuuuuu uuugcgu 17  
175 <210> SEQ ID NO: 13  
176 <211> LENGTH: 13  
177 <212> TYPE: RNA  
178 <213> ORGANISM: artificial sequence  
180 <220> FEATURE:  
181 <221> NAME/KEY: unsure  
182 <222> LOCATION: 8  
183 <223> OTHER INFORMATION: U5NU-13-mer oligo; n is a,g, u or c  
185 <400> SEQUENCE: 13

W--> 186 gcuuuuuuu ugc 13  
189 <210> SEQ ID NO: 14  
190 <211> LENGTH: 9  
191 <212> TYPE: RNA  
192 <213> ORGANISM: artificial sequence  
194 <220> FEATURE:  
195 <221> NAME/KEY: unsure  
196 <222> LOCATION: 6 n is at location 6; u is at location 7 (see p.4)  
197 <223> OTHER INFORMATION: U5NU-9-mer oligo; n is a,g,u or c

Input Set : A:\niles non-provisional-US.txt  
Output Set: N:\CRF4\04012004\J750939A.raw

199 <400> SEQUENCE: 14  
N--> 200 ~~uuuuuuuuuu~~ 9  
203 <210> SEQ ID NO: 15  
204 <211> LENGTH: 7  
205 <212> TYPE: RNA  
206 <213> ORGANISM: artificial sequence  
208 <220> FEATURE:  
209 <221> NAME/KEY: unsure  
210 <222> LOCATION: 6  
211 <223> OTHER INFORMATION: U5NU-7-mer oligo; n is a,g,u or c  
213 <400> SEQUENCE: 15  
W--> 214 ~~uuuuuuu~~ 7  
217 <210> SEQ ID NO: 16  
218 <211> LENGTH: 7  
219 <212> TYPE: RNA  
220 <213> ORGANISM: artificial sequence  
222 <220> FEATURE:  
W--> 223 <221> NAME/KEY:  
224 <222> LOCATION:  
225 <223> OTHER INFORMATION: mutant 7-mer  
227 <400> SEQUENCE: 16  
228 ~~uuuuuuau~~ 7  
230 <210> SEQ ID NO: 17  
231 <211> LENGTH: 22  
232 <212> TYPE: DNA  
233 <213> ORGANISM: artificial sequence  
235 <220> FEATURE:  
236 <221> NAME/KEY: unsure  
237 <222> LOCATION: 14  
238 <223> OTHER INFORMATION: DNA-U9-DNA oligo; n is g,a,u or c; 1-8 and 18-22 are DNA  
240 <400> SEQUENCE: 17  
W--> 241 ~~ggccggcuu uuunuuugcg uu~~ 22  
243 <210> SEQ ID NO: 18  
244 <211> LENGTH: 22  
245 <212> TYPE: RNA  
246 <213> ORGANISM: artificial sequence  
248 <220> FEATURE:  
249 <221> NAME/KEY: unsure  
250 <222> LOCATION: 14  
251 <223> OTHER INFORMATION: 2-prime-O-Me-RNA-PT-U9-2-prime-O-Me-PT-RNA oligo; n is g,a,u  
or c; 1-8 and 18-22 are 2-prime-O methylated; 1-8 and 17-22 have phosphorthiol bonds  
252 and 18-22 are 2-prime-O methylated; 1-8 and 17-22 have phosphorthiol bonds  
254 <400> SEQUENCE: 18  
W--> 255 ~~ggccggcuu uuunuuugcg uu~~ 22  
257 <210> SEQ ID NO: 19  
258 <211> LENGTH: 22  
259 <212> TYPE: DNA  
260 <213> ORGANISM: artificial sequence  
262 <220> FEATURE:  
263 <221> NAME/KEY: unsure

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/750,939A

DATE: 04/01/2004  
TIME: 14:05:27

Input Set : A:\niles non-provisional-US.txt  
Output Set: N:\CRF4\04012004\J750939A.raw

264 <222> LOCATION: 14  
265 <223> OTHER INFORMATION: PT-DNA-U9-PT-DNA oligo; n is g,a,u or c; 1-8 and 18-22  
266 are phosphorthiols; 9-17 are RNA

268 <400> SEQUENCE: 19

W--> 269 gggccggcuu uuunuuugcg uu 22

271 <210> SEQ ID NO: 20

272 <211> LENGTH: 7

273 <212> TYPE: RNA

274 <213> ORGANISM: artificial sequence

276 <220> FEATURE:

277 <223> OTHER INFORMATION: U5AU oligo

279 <400> SEQUENCE: 20

280 uuuuauu 7

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/750,939A

DATE: 04/01/2004  
TIME: 14:05:28

Input Set : A:\niles non-provisional-US.txt  
Output Set: N:\CRF4\04012004\J750939A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 6  
Seq#:3; N Pos. 14  
Seq#:5; N Pos. 23  
Seq#:12; N Pos. 10  
Seq#:13; N Pos. 6  
Seq#:14; N Pos. 6  
Seq#:15; N Pos. 6  
Seq#:17; N Pos. 14  
Seq#:18; N Pos. 14  
Seq#:19; N Pos. 14

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/750,939A

DATE: 04/01/2004  
TIME: 14:05:28

Input Set : A:\niles non-provisional-US.txt  
Output Set: N:\CRF4\04012004\J750939A.raw

L:28 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:88 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6  
L:114 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8  
L:128 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9  
L:141 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10  
L:155 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11  
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:223 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16  
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0